Supplemental Table: Major Diseases and Health Conditions ICD-9 Codes

Supplemental Table: Major Diseases and Health Conditions ICD-9 Codes		
Codes	Diseases	
	Diabetes	
250.0[0-3]	Diabetes mellitus without mention of complication	
250.1[0-3]	Diabetes with ketoacidosis	
250.2[0-3]	Diabetes with hyperosmolarity	
250.3[0-3]	Diabetes with other coma Diabetes with renal manifestations	
250.4[0-3] 250.5[0-3]	Diabetes with ophthalmic manifestations	
250.6[0-3]	Diabetes with neurological manifestations	
250.7[0-3]	Diabetes with peripheral circulatory disorders	
250.8[0-3]	Diabetes with other specified manifestations	
250.9[0-3]	Diabetes with unspecified complication	
	Sencodary diabetes	
249.0[0-1]	Secondary diabetes mellitus without mention of complication	
249.1[0-1]	Secondary diabetes mellitus with ketoacidosis	
249.2[0-1]	Secondary diabetes mellitus with hyperosmolarity	
249.3[0-1]	Secondary diabetes mellitus with other coma	
249.4[0-1]	Secondary diabetes mellitus with renal manifestations Secondary diabetes mellitus with ophthalmic manifestations	
249.5[0-1] 249.6[0-1]	Secondary diabetes mellitus with opinthalmic manifestations Secondary diabetes mellitus with neurological manifestations	
249.7[0-1]	Secondary diabetes mellitus with recursorged mannes attoris Secondary diabetes mellitus with peripheral circulatory disorders	
249.8[0-1]	Secondary diabetes mellitus with other specified manifestations	
249.9[0-1]	Secondary diabetes mellitus with unspecified complication	
	STD	
090	Congenital syphilis	
091	Early syphilis, symptomatic	
092	Early syphilis, latent	
093	Cardiovascular syphilis	
094	Neurosyphilis	
095	Other forms of late syphilis, with symptoms	
096 097	Late syphilis, latent Other and unspecified symbilis	
097	Other and unspecified syphilis Gonococcal infections	
099	Other venereal diseases	
	Cancer	
140	Malignant neoplasm of lip	
141	Malignant neoplasm of tongue	
142	Malignant neoplasm of major salivary glands	
143	Malignant neoplasm of gum	
144	Malignant neoplasm of floor of mouth	
145	Malignant neoplasm of other and unspecified parts of mouth Malignant neoplasm of oropharynx	
146 147	Malignant neoplasm of nasopharynx	
148	Malignant neoplasm of hypopharynx	
149	Malignant neoplasm of other and ill-defined sites within the lip, oral cavity, and pharynx	
150	Malignant neoplasm of esophagus	
151	Malignant neoplasm of stomach	
152	Malignant neoplasm of small intestine, including duodenum	
153	Malignant neoplasm of colon	
154	Malignant neoplasm of rectum, rectosigmoid junction, and anus	
155	Malignant neoplasm of liver and intrahepatic bile ducts	
156	Malignant neoplasm of gallbladder and extrahepatic bile ducts	
157	Malignant neoplasm of pancreas	
158	Malignant neoplasm of retroperitoneum and peritoneum	
159 160	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum Malignant neoplasm of nasal cavities, middle ear, and accessory sinuses	
161	Malignant neoplasm of larynx	
162	Malignant neoplasm of trachea, bronchus, and lung	
163	Malignant neoplasm of pleura	
164	Malignant neoplasm of thymus, heart, and mediastinum	
165	Malignant neoplasm of other and ill-defined sites within the respiratory system and intrathoracic organs	
170	Malignant neoplasm of bone and articular cartilage	
171	Malignant neoplasm of connective and other soft tissue	
172	Malignant melanoma of skin	

173	Other malignant neoplasm of skin
174	Malignant neoplasm of female breast
175	Malignant neoplasm of male breast
176	Kaposi's sarcoma
179	Malignant neoplasm of uterus, part unspecified
180	Malignant neoplasm of cervix uteri
181	Malignant neoplasm of placenta
182	Malignant neoplasm of body of uterus
183	Malignant neoplasm of ovary and other uterine adnexa
184	Malignant neoplasm of other and unspecified female genital organs
185	Malignant neoplasm of prostate
186	Malignant neoplasm of testis
187	Malignant neoplasm of penis and other male genital organs
188	Malignant neoplasm of bladder
189	Malignant neoplasm of kidney and other and unspecified urinary organs
190	Malignant neoplasm of eye
191	Malignant neoplasm of brain
192	Malignant neoplasm of other and unspecified parts of nervous system
193	Malignant neoplasm of thyroid gland
194	Malignant neoplasm of other endocrine glands and related structures
195	Malignant neoplasm of other and ill-defined sites
196	Secondary and unspecified malignant neoplasm of lymph nodes
197	Secondary malignant neoplasm of respiratory and digestive systems
198	Secondary malignant neoplasm of other specified sites
199	Malignant neoplasm without specification of site
200	Lymphosarcoma and reticulosarcoma and other specified malignant tumors of lymphatic tissue
200	Hodgkin's disease
201	Other malignant neoplasms of lymphoid and histiocytic tissue
202	Multiple myeloma and immunoproliferative neoplasms
	·
204	Lymphoid leukemia
205	Myeloid leukemia
206	Monocytic leukemia
207	Other specified leukemia
208	Leukemia of unspecified cell type
209.0	Malignant carcinoid tumors of the small intestine
209.1	Malignant carcinoid tumors of the appendix, large intestine, and rectum
209.2	Malignant carcinoid tumors of other and unspecified sites
209.3	Malignant poorly differentiated neuroendocrine tumors
	CIDCUL ATORY CYCTEM
200	CIRCULATORY SYSTEM Rheumatic fever without mention of heart involvement
390	Rheumatic fever without mention of heart involvement
391	Rheumatic chorea with heart involvement
392	
393	Chronic rheumatic pericarditis
394	Diseases of mitral valve
395	Diseases of aortic valve
396	Diseases of mitral and aortic valves Diseases of other endocardial structures
397	
398	Other rheumatic heart disease
401	Essential hypertension
402	Hypertensive heart disease
403	Hypertensive chronic kidney disease
404	Hypertensive heart and chronic kidney disease
405	Secondary hypertension
410	Acute myocardial infarction
411	Other acute and subacute forms of ischemic heart disease
412	Old myocardial infarction
413	Angina pectoris
414	Other forms of chronic ischemic heart disease
415	Acute pulmonary heart disease
416	Chronic pulmonary heart disease
417	Other diseases of pulmonary circulation
420	Acute pericarditis
421	Acute and subacute endocarditis
422	Acute myocarditis
423	Other diseases of pericardium
424	·
	Other diseases of endocardium
425	·

426	Conduction disorders
427	Cardiac dysrhythmias
428	Heart failure
429	Ill-defined descriptions and complications of heart disease
430	Subarachnoid hemorrhage
431	Intracerebral hemorrhage
432	Other and unspecified intracranial hemorrhage
433	Occlusion and stenosis of precerebral arteries
434	Occlusion of cerebral arteries
435	Transient cerebral ischemia
436	Acute, but ill-defined, cerebrovascular disease
437	Other and ill-defined cerebrovascular disease
438	Late effects of cerebrovascular disease
440 441	Atherosclerosis
441	Aortic aneurysm and dissection Other aneurysm
442	Other peripheral vascular disease
444	Arterial embolism and thrombosis
445	Atheroembolism
446	Polyarteritis nodosa and allied conditions
447	Other disorders of arteries and arterioles
448	Disease of capillaries
449	Septic arterial embolism
451	Phlebitis and thrombophlebitis
452	Portal vein thrombosis
453	Other venous embolism and thrombosis
454	Varicose veins of lower extremities
455	Hemorrhoids
456	Varicose veins of other sites
457	Noninfectious disorders of lymphatic channels
458	Hypotension
459	Other disorders of circulatory system
	, ,
	Respiratory diseases
460	Acute nasopharyngitis [common cold]
461	Acute sinusitis
462	Acute pharyngitis
463	Acute tonsillitis
464	Acute laryngitis and tracheitis
465	Acute upper respiratory infections of multiple or unspecified sites
466	Acute bronchitis and bronchiolitis
470	Deviated nasal septum
471	Nasal polyps
472	Chronic pharyngitis and nasopharyngitis
473	Chronic sinusitis
474	Chronic disease of tonsils and adenoids
475	Peritonsillar abscess
476	Chronic laryngitis and laryngotracheitis
477	Allergic rhinitis
478	Other diseases of upper respiratory tract
480	Viral pneumonia
481	Pneumococcal pneumonia [Streptococcus pneumoniae pneumonia]
482	Other bacterial pneumonia
483	Pneumonia due to other specified organism
484	Pneumonia in infectious diseases classified elsewhere
485	Bronchopneumonia, organism unspecified
486	Pneumonia, organism unspecified
487	Influenza
488	Influenza due to identified avian influenza virus
490	Bronchitis, not specified as acute or chronic
491	Chronic bronchitis
492 493	Emphysema
	A atlanta
	Asthma
494	Bronchiectasis
494 495	Bronchiectasis Extrinsic allergic alveolitis
494 495 496	Bronchiectasis Extrinsic allergic alveolitis Chronic airway obstruction, not elsewhere classified
494 495	Bronchiectasis Extrinsic allergic alveolitis

502	Pneumoconiosis due to other silica or silicates
503	Pneumoconiosis due to other inorganic dust
504	Pneumonopathy due to inhalation of other dust
505	Pneumoconiosis, unspecified
506	Respiratory conditions due to chemical fumes and vapors
507	Pneumonitis due to solids and liquids
508	Respiratory conditions due to other and unspecified external agents
510	Empyema
511	Pleurisy
512 513	Pneumothorax Abscess of lung and mediastinum
514	Pulmonary congestion and hypostasis
515	Postinflammatory pulmonary fibrosis
516	Other alveolar and parietoalveolar pneumonopathy
517	Lung involvement in conditions classified elsewhere
518	Other diseases of lung
519	Other diseases of respiratory system
574.0	Liver diseases(Chronic liver disease and cirrhosis)
571.0	Alcoholic fatty liver
571.1	Acute alcoholic hepatitis
571.2 571.3	Alcoholic cirrhosis of liver
571.3	Alcoholic liver damage, unspecified Chronic hepatitis, unspecified
571.40	Chronic persistent hepatitis
571.42	Autoimmune hepatitis
571.49	Other Chronic hepatitis
571.5	Cirrhosis of liver without mention of alcohol
571.6	Biliary cirrhosis
571.8	Other chronic nonalcoholic liver disease
571.9	Unspecified chronic liver disease without mention of alcohol
201 92	Sleep disorders
291.82 292.85	Alcohol induced sleep disorders Drug induced sleep disorders
307.40	Nonorganic sleep disorder, unspecified
307.41	Transient disorder of initiating or maintaining sleep
307.42	Persistent disorder of initiating or maintaining sleep
307.43	Transient disorder of initiating or maintaining wakefulness
307.44	Persistent disorder of initiating or maintaining wakefulness
307.45	Circadian rhythm sleep disorder of nonorganic origin
307.46	Sleep arousal disorder
307.47	Other dysfunctions of sleep stages or arousal from sleep
307.48	Repetitive intrusions of sleep
307.49	Other specific disorders of sleep of nonorganic origin
327.0	Organic disorders of initiating and maintaining sleep [Organic insomnia]
327.1	Organic disorder of excessive somnolence [Organic hypersomnia]
327.2	Organic sleep apnea
327.3	Circadian rhythm sleep disorder
327.4	Organic parasomnia
327.5 327.8	Organic sleep related movement disorders
780.50	Other organic sleep disorders Sleep disturbance, unspecified
780.50	Insomnia with sleep apnea, unspecified
780.52	Insomnia, unspecified
780.53	Hypersomnia with sleep apnea, unspecified
780.54	Hypersomnia, unspecified
780.55	Disruption of 24 hour sleep wake cycle, unspecified
780.56	Dysfunctions associated with sleep stages or arousal from sleep
780.57	Unspecified sleep apnea
780.58	Sleep related movement disorder, unspecified
780.59	Other sleep disturbances
	unv
V/09	HIV Asymptomatic human immunodeficiones virus [HIV] infection status
V08 042	Asymptomatic human immunodeficiency virus [HIV] infection status Human immunodeficiency virus [HIV] disease
V42	Trainan minumodenciency virus [mv] disease

HCV

070.41	Acute hepatitis C with hepatic coma
070.44	Chronic hepatitis C with hepatic coma
070.51	Acute hepatitis C without mention of hepatic coma
070.54	Chronic hepatitis C without mention of hepatic coma
070.70	Unspecified viral hepatitis C without hepatic coma
070.71	Unspecified viral hepatitis C with hepatic coma
V02.60	Viral hepatitis carrier, unspecified
V02.62	Hepatitis C carrier
V02.69	Other viral hepatitis carrier
V12.09	Personal history of other infectious and parasitic diseases
	Chronic pain
307.81	Tension headache
307.89	Other pain disorders related to psychological factors
338.21	Chronic pain due to trauma
338.22	Chronic post-thoracotomy pain
338.28	Other chronic postoperative pain
338.29	Other chronic pain
338.4	Chronic pain syndrome
346.0	Migraine with aura
346.1	Migraine without aura
346.2	Variants of migraine, not elsewhere classified
346.3	Hemiplegic migraine
346.4	Menstrual migraine
346.5	Persistent migraine aura without cerebral infarction
346.6	Persistent migraine aura with cerebral infarction
346.7	Chronic migraine without aura
346.8	Other forms of migraine
346.9	Migraine, unspecified
710	Diffuse diseases of connective tissue
711	Arthropathy associated with infections
712	Crystal arthropathies
713	Arthropathy associated with other disorders classified elsewhere
714	Rheumatoid arthritis and other inflammatory polyarthropathies
715	Osteoarthrosis and allied disorders
716	Other and unspecified arthropathies
717	Internal derangement of knee
718	Other derangement of joint
719	Other and unspecified disorders of joint
720	Ankylosing spondylitis and other inflammatory spondylopathies
721	Spondylosis and allied disorders
722	Intervertebral disc disorders
723	Other disorders of cervical region
724	Other and unspecified disorders of back
725	Polymyalgia rheumatica
726	Peripheral enthesopathies and allied syndromes
727	Other disorders of synovium, tendon, and bursa
728	Disorders of muscle, ligament, and fascia
729	Other disorders of soft tissues
==	

Depression 290.13 PRESENILE DEMENTIA WITH DEPRESSIVE FEATURES SENILE DEMENTIA WITH DEPRESSIVE FEATURES 290.21 296.20 MAJOR DEPRESSIVE AFFECTIVE DISORDER SINGLE EPISODE UNSPECIFIED DEGREE 296.21 MAJOR DEPRESSIVE AFFECTIVE DISORDER SINGLE EPISODE MILD DEGREE 296.22 MAJOR DEPRESSIVE AFFECTIVE DISORDER SINGLE EPISODE MODERATE DEGREE 296.23 MAJOR DEPRESSIVE AFFECTIVE DISORDER SINGLE EPISODE SEVERE DEGREE WITHOUT PSYCHOTIC BEHAVIOR 296.24 MAJOR DEPRESSIVE AFFECTIVE DISORDER SINGLE EPISODE SEVERE DEGREE SPECIFIED AS WITH PSYCHOTIC BEHAVIOR 296.25 MAJOR DEPRESSIVE AFFECTIVE DISORDER SINGLE EPISODE IN PARTIAL OR UNSPECIFIED REMISSION MAJOR DEPRESSIVE AFFECTIVE DISORDER SINGLE EPISODE IN FULL REMISSION 296.26 MAJOR DEPRESSIVE AFFECTIVE DISORDER RECURRENT EPISODE UNSPECIFIED DEGREE 296.30 296.31 MAJOR DEPRESSIVE AFFECTIVE DISORDER RECURRENT EPISODE MILD DEGREE 296.32 MAJOR DEPRESSIVE AFFECTIVE DISORDER RECURRENT EPISODE MODERATE DEGREE MAJOR DEPRESSIVE AFFECTIVE DISORDER RECURRENT EPISODE SEVERE DEGREE WITHOUT PSYCHOTIC BEHAVIOR 296.33 MAJOR DEPRESSIVE AFFECTIVE DISORDER RECURRENT EPISODE SEVERE DEGREE SPECIFIED AS WITH PSYCHOTIC BEHAVIOR 296.34 MAJOR DEPRESSIVE AFFECTIVE DISORDER RECURRENT EPISODE IN PARTIAL OR UNSPECIFIED REMISSION 296.35

Mental health related

296.36	MAJOR DEPRESSIVE AFFECTIVE DISORDER RECURRENT EPISODE IN FULL REMISSION
296.82	ATYPICAL DEPRESSIVE DISORDER
301.12	CHRONIC DEPRESSIVE PERSONALITY DISORDER
309.1	ADJUSTMENT REACTION WITH PROLONGED DEPRESSIVE REACTION
311	DEPRESSIVE DISORDER NOT ELSEWHERE CLASSIFIED
300.4	Dysthymic disorder
	Anxiety
293.84	ANXIETY DISORDER IN CONDITIONS CLASSIFIED ELSEWHERE
300.00	ANXIETY STATE UNSPECIFIED
300.02	GENERALIZED ANXIETY DISORDER
300.09	OTHER ANXIETY STATES
309.21	SEPARATION ANXIETY DISORDER
309.81	PTSD
300.3	ODC
300.01	Panic disorder without agoraphobia
3000.21	Agoraphobia w panic disoder
	Bipolar
296.00	BIPOLAR I DISORDER, SINGLE MANIC EPISODE, UNSPECIFIED
296.01	BIPOLAR I DISORDER, SINGLE MANIC EPISODE, MILD
296.02	BIPOLAR I DISORDER, SINGLE MANIC EPISODE, MODERATE
296.03	BIPOLAR I DISORDER, SINGLE MANIC EPISODE, SEVERE, WITHOUT MENTION OF PSYCHOTIC BEHAVIOR
296.04	BIPOLAR I DISORDER, SINGLE MANIC EPISODE, SEVERE, SPECIFIED AS WITH PSYCHOTIC BEHAVIOR
296.05	BIPOLAR I DISORDER, SINGLE MANIC EPISODE, IN PARTIAL OR UNSPECIFIED REMISSION
296.06	BIPOLAR I DISORDER, SINGLE MANIC EPISODE, IN FULL REMISSION
296.40	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MANIC, UNSPECIFIED
296.41	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MANIC, MILD
296.42	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MANIC, MODERATE
296.43	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MANIC, SEVERE, WITHOUT MENTION OF PSYCHOTIC BEHAVIOR
296.44	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MANIC, SEVERE, SPECIFIED AS WITH PSYCHOTIC BEHAVIOR
296.45	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MANIC, IN PARTIAL OR UNSPECIFIED REMISSION
296.46	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MANIC, IN FULL REMISSION
296.50	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) DEPRESSED, UNSPECIFIED
296.51	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) DEPRESSED, MILD
296.52	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) DEPRESSED, MODERATE
296.53	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) DEPRESSED, SEVERE, WITHOUT MENTION OF PSYCHOTIC BEHAVIOR
296.54	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) DEPRESSED, SEVERE, SPECIFIED AS WITH PSYCHOTIC BEHAVIOR
296.55	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) DEPRESSED, IN PARTIAL OR UNSPECIFIED REMISSION
296.56	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) DEPRESSED, IN FULL REMISSION
296.60	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MIXED, UNSPECIFIED
296.61	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MIXED, MILD
296.62 296.63	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MIXED, MODERATE
	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MIXED, SEVERE, WITHOUT MENTION OF PSYCHOTIC BEHAVIOR BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MIXED, SEVERE, SPECIFIED AS WITH PSYCHOTIC BEHAVIOR
296.64 296.65	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MIXED, IN PARTIAL OR UNSPECIFIED REMISSION
296.66	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) MIXED, IN PARTIAL OR ONSPECIFIED REMISSION
296.7	BIPOLAR I DISORDER, MOST RECENT EPISODE (OR CURRENT) UNSPECIFIED
296.80	BIPOLAR DISORDER, UNSPECIFIED
296.89	OTHER AND UNSPECIFIED BIPOLAR DISORDERS, OTHER
250.05	
	Psychosis
298.0	DEPRESSIVE TYPE PSYCHOSIS
298.1	EXCITATIVE TYPE PSYCHOSIS
298.4	PSYCHOGENIC PARANOID PSYCHOSIS
298.8	OTHER AND UNSPECIFIED REACTIVE PSYCHOSIS
298.9	UNSPECIFIED PSYCHOSIS
205 0 205 4	v. schizonhronia

295.0—295.xx schizophrenia